Skills Worksheet)

## **Directed Reading B**

## Section: The Cell Cycle (pp. 152–157)

**1.** Why is it important for your body to produce millions of new cells by the time you finish reading this sentence?

## THE LIFE OF A CELL

- **2.** When does the cell cycle begin?
  - **a.** when the cell is formed
  - **b.** when the cell divides
  - **c.** when the cell uses energy
  - **d.** when the cell takes in oxygen

## **3.** When does the cell cycle end?

- **a.** when the cell is formed
- **b.** when the cell divides and makes new cells
- $\boldsymbol{\mathsf{c}}.$  when the cell uses energy
- **d.** when the cell takes in oxygen
- 4. What must a cell do before it can divide to make a new cell?

5. What makes sure that each new cell receives all the DNA of the parent cell?

**6.** A cell without a nucleus is a(n) \_\_\_\_\_ cell.

**7.** A cell with a nucleus is a(n) \_\_\_\_\_\_ cell.

**8.** A chromosome is the main ring of DNA in a(n) \_\_\_\_\_\_cell.

**9.** A chromosome is made up of DNA and protein in the nucleus of a(n)

\_\_\_\_\_ cell.

**10.** Are bacteria prokaryotic cells or eukaryotic cells?

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Name	Class	Date
Directed Reading B continued		
<b>11.</b> Bacteria create new cells the	rough a kind of cell div	ision called
<b>12.</b> When binary fission is comp	plete, the result is two o	cells that each contain
one copy of		
<b>13.</b> Eukaryotes have more	t	han do prokaryotes.
14. Humans have	chromoso	omes, while fruit flies have
only	and potatoes have .	
chromosomes.		
<b>15.</b> Chromosomes that line up in	n pairs are made up of	similar chromosomes
called <b>16.</b> In the beginning of the euka		ell grows and copies
its	_ and	·
<b>17.</b> After a chromosome is dupl	icated, the two copies a	are
called		
<b>18.</b> Where are chromatids held t	together?	
<b>19.</b> What happens during the fir	st stage of the cell cycl	e in a eukaryotic cell?